

*Amended C1*  
salts, solvates and metabolites, etc. in admixture with an enzyme inhibitor, such as, for example, piperonyl butoxide (PBO), MGK 264 (N-octyl bicycloheptene dicarboximide (CAS No: 113484)) and sesamex. In a preferred embodiment, the enzyme inhibitor is a P-450 enzyme inhibitor.--

Please replace the paragraph beginning at page 6, line 3, with the following rewritten paragraph:

*B2*  
--In another embodiment, the present invention encompasses synergistic and residual pesticidal compositions comprising at least one of the above plant essential oil compounds with piperonyl butoxide, and a member selected from the group consisting of pyrethrolone, allethrolone, chrysanthemic acid, chrysanthemyl alcohol, chrysanthemate ester, cis-jasmone, tetrahydrofurfuryl alcohol (THFA), Lavendustin A (*N*-(2',5'-Dihydroxybenzyl)-*N*-(2"-hydroxybenzyl)-3-aminosalicylic Acid (CAS No: 125697-92-9)), and PD 98059 (2'-amino-3'-methoxyflavone), in admixture with a suitable carrier and optionally a suitable surface active agent.--

**IN THE CLAIMS**

Please cancel claims 2-4, 8-10, 12, 15 and 16 without prejudice or disclaimer of the subject matter they contain.

Please amend claims 1, 5, 7, 11, and 14, as follow:

*B2*  
1. (Amended) A pesticidal composition comprising, in admixture with an acceptable carrier, at least one plant essential oil compound or derivative thereof and an enzyme inhibitor

B3  
C16  
selected from the group consisting of piperonyl butoxide, MGK 264, and sesamex.

B4  
5. (Amended) The pesticidal composition of claim 1 wherein the plant essential oil compounds or derivatives thereof are selected from the group consisting of aldehyde C16, -terpineol, amyl cinnamic aldehyde, amyl salicylate, anisic aldehyde, benzyl alcohol, benzyl acetate, cinnamaldehyde, cinnamic alcohol, carvacrol, carveol, citral, citronellal, citronellol, p-cymene, diethyl phthalate, dimethyl salicylate, dipropylene glycol, eucalyptol (cineole), eugenol, iso-eugenol, galaxolide, geraniol, guaiacol, ionone, menthol, methyl anthranilate, methyl ionone, methyl salicylate, -phellandrene, pennyroyal oil, perillaldehyde, 1- or 2-phenyl ethyl alcohol, 1- or 2-phenyl ethyl propionate, piperonal, piperonyl acetate, piperonyl alcohol, D-pulegone, terpinen-4-ol, terpinyl acetate, 4-tert butylcyclohexyl acetate, thyme oil, thymol, trans-anethole, vanillin, and ethyl vanillin.

6. (Amended) A method for controlling pests, which comprises applying to the locus where control is desired a pesticidally-effective amount of the composition of claim 1.

7. (Amended) A pesticidal composition comprising, in admixture with an acceptable carrier, at least one plant essential oil or derivative thereof and an enzyme inhibitor selected from the group consisting of piperonyl butoxide, MGK 264, and sesamex, and at least one synergist selected from the group consisting of pyrethrolone, allethrolone, chrysanthemic acid, chrysanthemyl alcohol, chrysanthemate ester, cis-jasmone, tetrahydrofurfuryl alcohol (THFA), forskolin, Lavendustin A and PD 98059.

B5  
11. (Amended) The pesticidal composition of claim 7, wherein the plant essential oil

B5  
Methyl

compounds or derivatives thereof are selected from the group consisting of aldehyde C16, -terpineol, amyl cinnamic aldehyde, amyl salicylate, anisic aldehyde, benzyl alcohol, benzyl acetate, cinnamaldehyde, cinnamic alcohol, carvacrol, carveol, citral, citronellal, citronellol, p-cymene, diethyl phthalate, dimethyl salicylate, dipropylene glycol, eucalyptol (cineole) eugenol, iso-eugenol, galaxolide, geraniol, guaiacol, ionone, menthol, methyl anthranilate, methyl ionone, methyl salicylate, -phellandrene, pennyroyal oil, perillaldehyde, 1- or 2-phenyl ethyl alcohol, 1- or 2-phenyl ethyl propionate, piperonal, piperonyl acetate, piperonyl alcohol, D-pulegone, terpinen-4-ol, terpinyl acetate, 4-tert butylcyclohexyl acetate, thyme oil, thymol, trans-anethole, vanillin, and ethyl vanillin.

B4

13. (Amended) A method for controlling pests, which comprises applying to the locus where control is desired a pesticidally-effective amount of the composition of claim 7.

14. (Amended) A pesticidal composition comprising, in admixture with an acceptable carrier, an enzyme inhibitor selected from the group consisting of piperonyl butoxide, MGK 264, and sesamex and at least one synergist selected from the group consisting of pyrethrolone, allethrolone, chrysanthemic acid, chrysanthemyl alcohol, chrysanthemate ester, cis-jasmone, tetrahydrofurfuryl alcohol (THFA), forskolin, Lavendustin A, and PD 98059.

B7

17. (Amended) A method for controlling pests, which comprises applying to the locus where control is desired a pesticidally-effective amount of the composition of claim 14.